STRONG
DIGITAL TV

Picture similar

Digital HD Terrestriell Mottaker SRT 8900

User manual

Introduction

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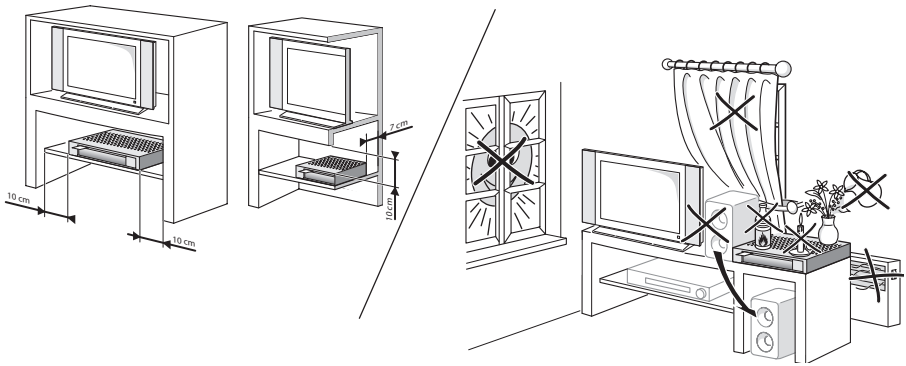
Safety recommendations



Using equipment safely

Your decoder has been manufactured to meet European safety standards, but care must be taken to ensure proper performance.

It is important that you read this booklet completely, especially the safety instructions below. If you have any doubts about the installation, operation or safety of decoder, please contact your Customer Service.

Avoiding the risk of electric shock

- Disconnect the decoder from the mains supply before you connect the decoder to (or disconnect it from) any other equipment. Avoid any contact with 230 Volt AC mains, which can be lethal or cause severe electric shock.
- Do not remove the cover of the decoder. Should the decoder fail, contact the Customer Service for repair or service.
- Do not insert anything into any opening of the case (except the Smartcard)
- Do not block the decoder's ventilation slots; do not place it on unstable surfaces like carpets.
- Do not put anything on the decoder which might spill or drip into it (eg. Lighted candles or liquids containers). Do not splash it with a liquid. If an object or liquid enters inside the decoder, unplug it immediately and contact the Customer Service.
- Do not store the decoder in excessively hot, cold or damp conditions. The decoder is intended to operate at an ambient temperature of less than 45 degrees Celsius and a maximum humidity level of 75%.
- In case of a thunderstorm, it is recommended that you unplug the decoder from the mains and the antenna from the TV set.
- Leave the mains socket accessible so that you can unplug the set quickly

Connecting to the mains supply

- This decoder is designed to operate at 230V AC, 50Hz.
- If you are in any doubt about the mains lead, the plug or connection, please consult the Customer Service.

Ensuring optimum performance

- Leave 7 cm to 10 cm around the decoder to ensure proper ventilation to the decoder.
- Always place your decoder horizontally.
- To clean the decoder, use a dry, clean soft cloth with no cleaning solvent or abrasive products. Clean the ventilation openings regularly.

Environmental Information

- The batteries use some hazardous substances which pollute the environment. Do not dispose them out with other articles. Take care to dispose them at special collecting points.
- If you are not using the receiver for a long period (including overnight), please switch it over to standby. This saves energy.

Technical specifications

Operating voltage	230 VAC / 50Hz
Nominal Power consumption	< 12W
Stand by Power consumption (active)	< 8W
Weight (without accessories)	1 Kg
Dimensions (W x H x D) without feet	260 x 52 x 192 mm
Operating temperature range	5 – 45°C
Storage temperature range	-25 – 70°C
Remote Control battery Type	2 x AAA
Conditional access	ISO7816 - CONAX

Connections

HDMI out	HDMI connector type A
RF in	IEC60169-2 female
RF out	IEC60169-2 male
TV	Scart
VCR	Scart
Audio Out (L and R)	RCA female
Electrical Audio out – S/P-DIF	RCA female

Meaning of symbols

CE

This symbol on your set guarantees that your product complies with European Directives 73/23/EEC, 89/336/EEC, 93/68/EEC on safety, electromagnetic compatibility and marking respectively.

This symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product housing that may be of sufficient magnitude to constitute a risk of shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions accompanying the product.

About your HD Decoder

Thank you for choosing the **Strong SRT 8900**, the new **Strong** generation of HD terrestrial set-top boxes. Thanks to its High Definition (HD) feature, you will be the first in line to enjoy **TV in premium quality**!

Equipped with the latest HD technology, your Strong SRT 8900 is ready for the latest standard and is also compatible with the traditional SD standard.

What is HD?

High definition television (HDTV) is a digital broadcast of television programming with significantly superior video and audio quality. HDTV offers higher resolution for a sharper picture with fuller, richer colors and 16:9 wide screen presentation. An HDTV broadcast has up to 1080 lines, resulting in five times the picture clarity vs. standard definition.

How does the HD work?

The image definition is measured in pixel units. The larger the number of pixels, the better is quality and sharpness. The High Definition is based on two norms which propose much higher resolutions (see table below). Thus, what was blurred and fuzzy with the SD appears to be automatically sharp and detailed with the HD.

TV	Resolution (Nb Pixel x Nb lines)	HD Compatibility
Standard TV	720 x 576	No
HD Ready	1280 x 720p	Yes
HD Ready	1920 x 1080i	Yes
Full HD	1920 x 1080p	Yes

What do you need to enjoy HD services?

To enjoy programmes in High Definition quality, you need:

- an HD TV
- the Strong SRT 8900 and an HDMI lead (not supplied along with the decoder)
- the relevant subscription.

Ideally you will be using a TV labeled "HD Ready" or "Full HD". Else check with your TV retailer if your TV set has HD features.

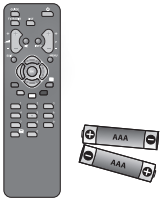
Discover the technology of tomorrow with the new Strong HD set-top box!

Connections

Package content

SRT 8900 set-top box

RF cable



Remote control with Batteries

Scart lead

User manual

Mains lead

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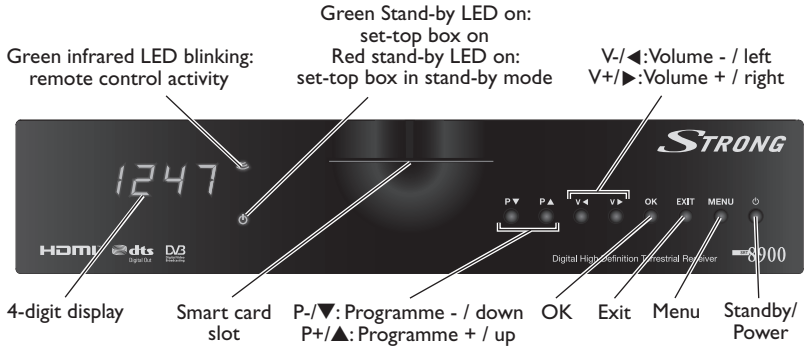
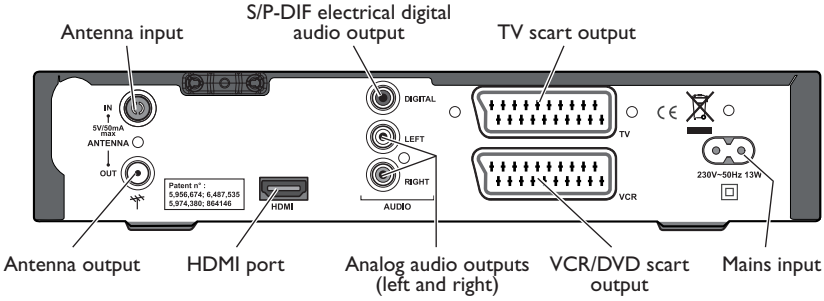
Front panel controls

SRT 8900



Rear Panel Connections



Connections to TV & other devices

Please follow figures 1 to 2 for a standard installation.

Note: *Before plugging in the receiver, you should connect at least the RF In antenna and the HDMI port. Other connections are optional.*

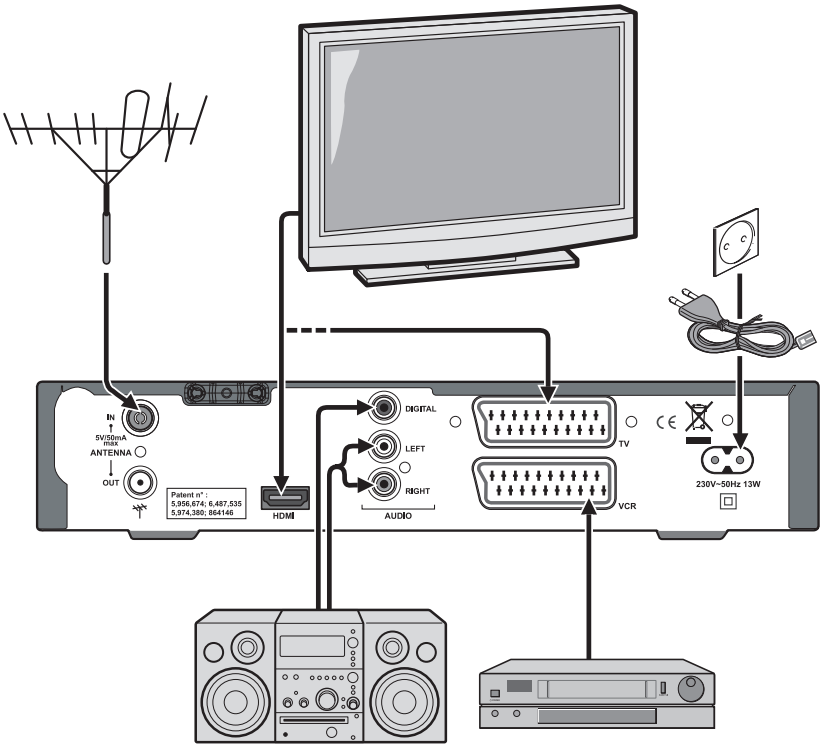
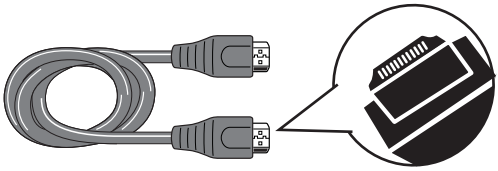


Figure 1: Connections to TV, VCR/DVD and Hi-Fi system.

Ensure the best HD connection



To ensure the best image quality

using an **"HD ready"** or **"Full HD"** TV screen, all you need is an **HDMI lead** to connect the HDMI port on your set-top box with the one on your TV.

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Your TV has no HDMI port but has one DVI-I port.

You will need:

- 1 HDMI-DVI lead to connect the HDMI port on your set-top box and the DVI-I port on your TV set.
- 1 audio RCA to connect the Left and Right analog audio outputs on your set-top box with the audio inputs on your TV set.

Your TV has neither HDMI port nor DVI port

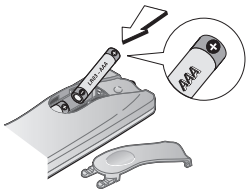
You will be able to watch HD programmes but not in HD quality. You can still enjoy all TV programmes in digital quality using the supplied scart lead.

Via the Scart, the VCR/DVD player will receive only analogue standard definition video. You would not be able to record in HD.

Inserting the smartcard

Hold your smartcard with the golden chip up in front of the slot. Insert your smartcard into the slot as far as it will go without forcing it.

Inserting batteries

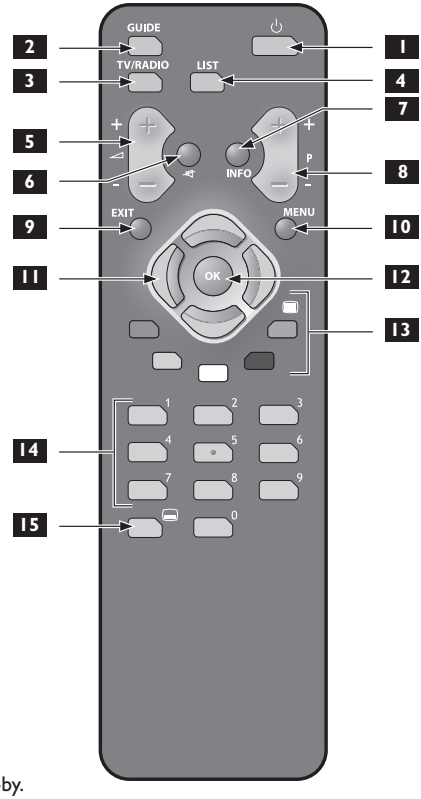


- Do not mix different types of batteries or new and old batteries. Do not use rechargeable batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment. Replace only with the type of batteries specified above. Do not dispose of them in a fire or recharge them.
- If you are not using the remote control for a long period of time, remove the batteries.

Figure 2: Inserting batteries*

* *Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if they will accept them for disposal.*

Remote control



1 - Power On / Stand-by.
2 - Open/closes access to the Electronic Program Guide (EPG).
3 - Toggles between TV and radio services.
4 - Displays the channel list.
5 - Increases/Decreases the volume level.
6 - Mutes to audio/Restore the previous audio volume.
7 - Opens the zapping banner / Opens the information banner / Closes the banner.
8 - Switches to the next/previous channel.
Scrolls one page up/down in a list.
9 - Exits all menus
10 - Opens/closes the menu.
11 - Allows navigating up/down/left/right in the menus.
In the viewing mode, the ▲/▼ buttons allow switching between different TV display modes.
12 - In menus, confirms a choice/selection. In the normal viewing mode, opens the TV banner.
13 - Selects functions displayed in the menu. In the normal viewing mode, the **purple** button displays the teletext, the **green** button goes back to the previous channel.
14 - Enters directly a number e.g. a PIN number, a channel number.
15 - Displays / Removes subtitles (if the option is available).

Quick installation

For a quick installation, please follow the steps below:

1. Check whether your set-top box is connected as shown in Figure 1 and 2 (page 6 and following).

2. Press the ⏻ key on your remote to switch on your set.
After a few seconds, a list of menu languages displays on screen.

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3. Select your preferred language using the ▲/▼ buttons and press **OK**.
Two installation modes are available:
- quick installation
- advanced installation

If your set-top box is connected to a powered active antenna, select DC power ON otherwise let this menu item set to OFF.

Note: *The DC power setting may also be changed in MENU/Set up/Options.*

4. Select **Quick installation** using the ▲/▼ buttons and press **OK**.
The TV and radio channel search starts automatically.

Advice: *a progress bar keeps you up-to-date on how far the channel search is.*

5. Wait until the channel scan is finished and press **OK**.
You are now watching TV in digital quality!

To learn how using main functionalities of your set-top box (changing channels, using the menus ect..), please read the next chapter on **Everyday use**!

Everyday use

Turning on/off

Press the ⏻ key on your remote to switch on or off your set.

Note - *To keep the Mini-Guide or the Electronic Programme Guide (EPG) updated, the set-top box should be left in standby, but if you are not going to use the set for a long period of time you should unplug it to save energy.*

Changing channels

Press the **P+/-** key to switch to the next/previous channel or enter the channel number using the digit keys on your remote and press **OK**.
Press the **green** button to come back to the previously watched channel.

Navigation clues

Always read the help bar displayed at the bottom of your screen.

- In the menu, EPG, banner and channel list, instructions on availability of further functionalities and on active remote control keys are given on screen.
- To display all channel lists, press the **LIST** key.
- To view available options such as subtitles, audio options on the programme, press the **INFO** key.
- To access the Electronic Programme Guide, press the **GUIDE** key.
- To access the Teletext, press the **purple** key.
- To display subtitles, press the ▭ key
- To install your receiver with your personal preferences (like TV resolution and format, banner time-out), please follow **MENU/Setup** and select **Connection** (to set TV resolution and format, TV/VCR output signal) or **Option** (to set banner time-out or subtitling).

To benefit from our policy of continuous improvement, note that this set-top box is upgradeable through download "over the air".

Using the menus

1. Press the **MENU** key on your remote to open the menu main page.
2. Use the ▲/▼ keys to navigate in a list and the ◀/▶ keys to set a selection.
3. Press **OK** to open the sub-menu or confirm the selection.
4. Press the **green** key to return to the previous screen **EXIT** or to return to the viewing mode.

Using the zapping/info banner

The **zapping banner** gives basic information about current and next programmes: time and date, channel number, channel name, programme title and elapsed time, start and end time of the programme etc.
The **information banner** provides detailed information (available programme options, programme genres etc..) and a synopsis of the selected programme.

To display the zapping banner:

1. Press the **INFO** key once.

Advice: *a basic zapping banner is automatically displayed when you tune to another channel. To change the display duration of the zapping banner go in* ***MENU/Setup/Options*** *and select* ***Banner time out****.*

To display the information banner:

2. Press the **INFO** key again.

Advice: *to display information on the next programme on the selected channel, press the ▼ arrow key.*

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To escape the zapping/information banner:

3. Press the **INFO** key a third time or the **EXIT** key once.

Using the Mini-Guide

Thanks to the **Mini-Guide** you can view what's on other channels without changing channel.

To use the mini-guide:

1. Press the **INFO** key once.
   Check that the highlight is set on **Mini-Guide**. Else, select it using the ▲/▼ buttons.
2. Press the ▶/◀ arrow keys for a virtual zapping in the current list of channels.

Information is given on the current and next programme of the selected channel.

Advice: *to switch to a current programme on another channel, select the channel and press the* ***OK*** *key.*

EPG

The Electronic Programme Guide (EPG) allows you to view what's on all channels up to 7 days in advance and to programme a timer.

To use the guide:

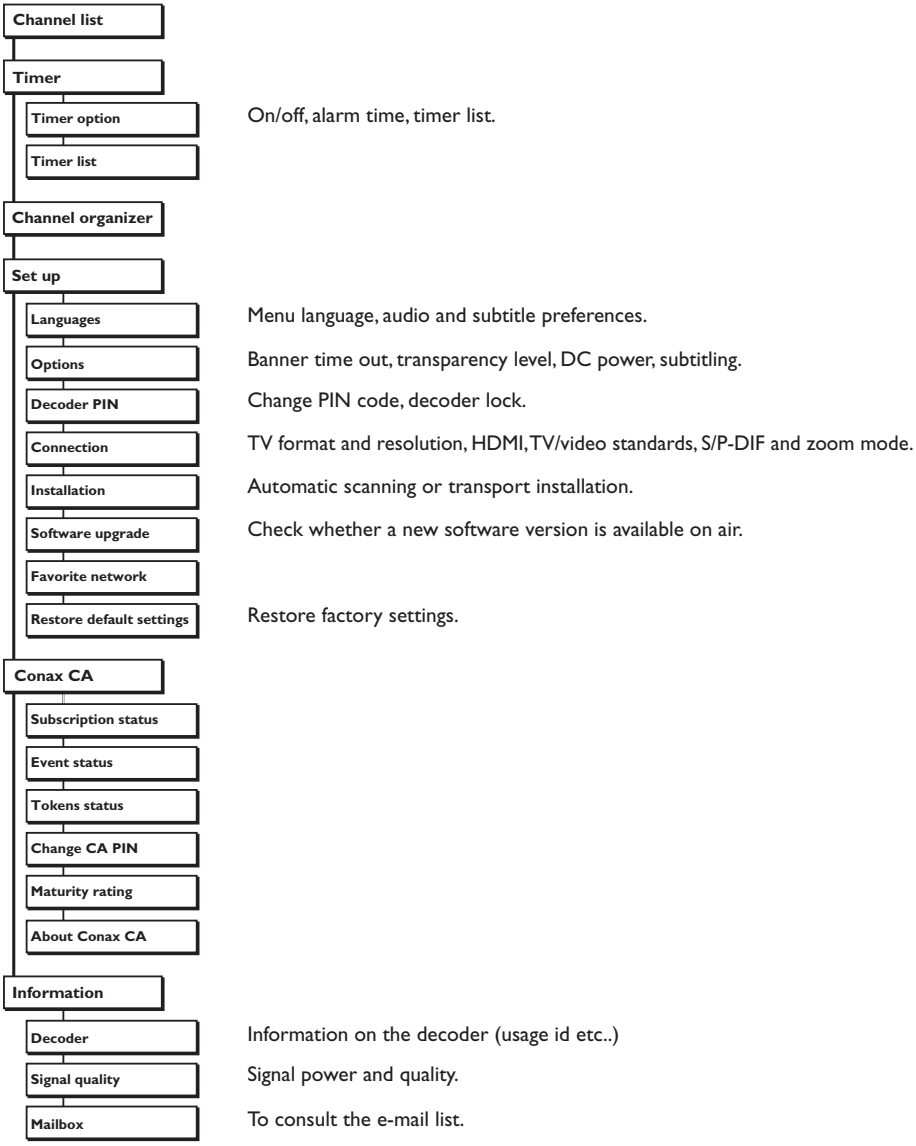
Press the **GUIDE** key once.
To navigate through the channel list, use the ▲ and ▼ keys.
To navigate through time slots, use the ◀ and ▶ keys.
To switch to a current programme broadcasted on another channel, highlight the programme using the arrow keys and press **OK**.
To set a timer to a programme that will be broadcasted later on, highlight the programme using the arrow keys and press **OK**.
To scroll pages up/down in the list, use the **P+/P-** keys.
To get more information about a programme, highlight it and press the **INFO** key.

To escape the guide:

To exit the EPG, press the **GUIDE** key again.

Menus

Charts of the menu



For detailed information about channels, electronic programme guide, timers and some setup parameters consult the following pages.

Channel list

This menu gives access to all lists of channels: the All TV list and your favourite lists. You can view list content and modify the currently viewed list.

Access to the list of channels

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Channel list** then press **OK**.

Advice: *For a direct access to the* **Channel list**, *press the* **LIST** *key on your remote.*

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View list content

To view the content of a list, highlight it using the ▲ and ▼ keys and press the **OK** key.

To navigate through the channel list, use the ▲ and ▼ keys.
To switch to a channel you want to watch, highlight the channel using the ▲ and ▼ keys and press the **OK** key The list will automatically be set as current.
To scroll one page down/up in the channel list, use the **P+/P-** keys.

Set a list as current

To set a list as current, highlight the list using the ▲ and ▼ keys and press **INFO**.

Note: *The focus is automatically set on the currently viewed list.*

Exit the Channel list

To exit the sub-menu list of channels, press **the LIST** key again.

Channel list update

During the first installation, the set-top box searches for channels in the network. If later new channels are made available or are renamed, suppressed or changed, the set-top box will automatically update the **All Channels** list.

Channel organizer

The channel organizer allows to create favourite lists and modify the different lists: rename, reorder or remove a list, add/remove channels, lock/unlock channels etc…

Access to the channel organizer

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Channel organizer** then press **OK**.

Create a new list

To create a new favourite list, highlight **Create a new list** using the ▲ and ▼ keys and press **OK**. The new list is automatically added to your current lists.

Modify/delete a list

To modify or delete a list, highlight it using the ▲ and ▼ keys and press **OK**. A menu with the different options displays on screen.

1. To **change the list name**, select the first item and press **OK**.
Then use the arrow buttons to change the preset name.
Press the **green** key to save your settings.

2. To **modify the list**, select the second item and press **OK**.
Then use the **OK** key to add or remove the selected channel from the favourite list.
Press the **green** key to save your settings.

3. To **lock/unlock channels**, select the third item and press **OK**.
Then use the **OK** key the lock or unlock the selected channel from the favourite list.
Press the **green** key to save your settings.

4. To **reorder the list,** select the fourth item and press **OK**.
Select the channel you want to reorder in the list using the ▲ and ▼ keys.
Then press **OK**.
Use the ▲ and ▼ keys to move the channel at your preferred position in the list.
Press **OK** to confirm the position. The list has been modified automatically.
Press the **green** key to save your settings.

5. To **delete the list**, select the last item on the list and press **OK**.
To confirm the list removal, press the ▲ key once then press **OK** twice.
To cancel the removal, press **OK**.
Press the **green** key to save your settings.

Exit the channel organizer

To exit the channel organizer, press the **MENU** key again.

Setup

Languages

The menu, audio and subtitle languages can be set in Norwegian, Swedish, Danish, Finnish, English (if the corresponding track exist).

Access to language settings

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Setup** then press **OK twice**.

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Modify a language

1. Using the ▲ and ▼ keys, select the menu, audio or subtitle language.
2. Press the ◄ and ► key to confirm a language.

Exit the language settings menu

To exit the language settings menu press the **MENU** key again.

Decoder PIN

The **Decoder PIN** sub-menu allows changing PIN code and lock/unlock the decoder.

Access to decoder PIN

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Setup** then press **OK**.
3. Using the ▲ and ▼ keys, select **Decoder PIN** then press **OK**.
   A PIN code protects the access. Enter your 4-digit PIN code.

Change decoder PIN code

Certain features of the set-top box (e.g. decoder lock) require the entry of a Personal Identification Number (PIN). The default number for this is 1234. It is highly recommended that you change this number.

Important - Keep your PIN secret, but don't lose it!

1. Select **Change PIN code** and press **OK**.
2. Enter the **new PIN** using the numerical buttons.
3. Finally, confirm the **new PIN** by entering it again.

Note: *To change the CA PIN, see page 17.*

Lock decoder

1. Select **MENU/Decoder PIN**.
2. Enter the **current PIN** using the numerical buttons.
3. Move focus on **Decoder lock**.
   Use the ◄ and ► keys to enable/disable the channels lock(unlock) function.
   Now locked channels in the Channel organizer are activated/desactivated.

Exit the Decoder PIN menu

To exit the Decoder PIN menu press the **MENU** key again.

Connection

The connection menu allows mainly settings TV formats, audio and video formats and HD resolutions.

Access to the connection menu

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Setup** then press **OK**.
3. Using the ▲ and ▼ keys, select **Connection** then press **OK**.

Modify the connection settings

Use the arrow keys to modify the connection settings. Below are the possible values for each item.

TV format:	4:3, 16:9
Zoom mode:	for 4:3: letter box, pan & scan, zoom 14:9, full screen for 16:9: pillar box, zoom 16:9, zoom 14:9, full screen
TV mode:	CVBS, SVHS and RGB
VCR mode:	CVBS and SVHS
Video standard:	PAL, SECAM
SPDIF mode:	stereo, multi
HDMI device Info:	Connected, Not connected
Resolution policy:	automatic or manual
TV resolution:	If manual: 576p, 720p, 1080i

Advice: *for a quick access to video formats, press the ▲ and ▼ arrow buttons.*

Exit the connection menu

To exit this menu press the **MENU** key again.

Restore default settings

Be careful when using this menu which is intended to reset your decoder to factory parameters. It means that all your preferences (favourite lists, timers, preferred connections etc…) will be erased and the decoder will have to restart the first installation.

Restore default parameters

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Setup** then press **OK**.
3. Using the ▲ and ▼ keys, select **Restore default settings** then press **OK**.
4. Enter your decoder PIN code.
A pop-up message appears to ask you to confirm the selection.
5. To cancel the reset, highlight **No**, press **OK** and press the **EXIT** key to return to the viewing mode.
To confirm the reset, highlight **Yes** and press **OK**.

The decoder will restart in first installation. For more information on how to process the installation, please refer to page 9.

Conax CA

The Conax menu allows getting information on your actual subscription, available tokens and changing the maturity rating.

- The **Subscription status** menu informs on rights period on each general channel.
- The **Event status** menu lists all PPV purchased programmes.
- The **Token status** menu informs on tokens of each available purse, including their debit and credit information to each programme that need to use token to be consumed.

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Change CA PIN

This sub-menu allows changing the CA PIN code.

Important: *The CA PIN code is different from the decoder PIN. The default number is also 1234. It is highly recommended that you change this number.*

Access to Change CA PIN

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Conax CA** then press **OK**.
3. Using the ▲ and ▼ keys, select **Change CA PIN** then press **OK**.
4. Enter the **old PIN** using the numerical buttons.
5. Enter the **new PIN** using the numerical buttons.
6. Finally, confirm the **new PIN** by entering it again.

Note: *To Change the decoder PIN, see page 15.*

Maturity rating

This sub-menu allows viewing and changing the current maturity rating. Four categories of maturity rating are defined:

- G for general audience
- PG for parental guidance
- A for over 18
- X for erotic

G has the lowest maturity rating.

Access to Maturity rating

1. Press the **MENU** key.
2. Using the ▲ and ▼ keys, select **Conax CA** then press **OK**.
3. Using the ▲ and ▼ keys, select **Maturity rating** then press **OK**.
You can view the current maturity rating applied to your decoder.

Modify the Maturity rating

1. Select **MENU/Conax CA/Maturity rating** then press **OK**.
2. Using the ◄ and ► key, select your preferred maturating rating.
3. Enter your CA PIN to validate the new setting.

Exit the Conax CA menu

To exit the Conax CA menu press the **MENU** key again.

Main features

Strong SRT 8900

- MPEG-4 set-top box: be the first in line to enjoy TV in HD quality!

Connections

- HDMI interface.
- RCA cinch audio outputs.
- Electrical S/P-DIF digital audio output.
- 2 Scarts: TV scart (CVBS/RGB) and VCR scart (CVBS).

Software

- Broadcast HD programmes.
- Bilingual user friendly on screen menus (Norwegian, Swedish, Danish, Finnish, English) through 256 colors On Screen Display (OSD).
- Channel organizer with up to 8 favourite lists.
- Electronic programme guide with now & next and multiple day events ready.
- Information Banner (including synopsis of the current program).
- DVB Subtitling, teletext subtitling and full teletext.
- 2 preferred audio and 2 preferred subtitles languages selection (Norwegian, English, other languages optional).
- Parental Control by PIN code.
- Timers available.
- Software upgrade over the air.

Accessories

- Remote control with batteries.
- RF lead.
- Mains lead.
- Scart cable.
- User manual.

This symbol means that your inoperative electronic appliance must be collected separately and not mixed with the household waste. The European Union has implemented a specific collection and recycling system for which manufacturers' are responsible.

This appliance has been designed and manufactured with high quality materials and components that can be recycled and reused. Electrical and electronic appliances are liable to contain parts that are necessary in order for the system to work properly but which can become a health and environmental hazard if they are not handled or disposed of in the proper way. Consequently, please do not throw out your inoperative appliance with the household waste.
If you are the owner of the appliance, you must deposit it at the appropriate local collection point or leave it with the vendor when buying a new appliance.
- If you are a professional user, please follow your supplier's instructions.
- If the appliance is rented to you or left in your care, please contact your service provider.
Help us protect the environment in which we live!

Trouble shooting

Not every picture or sound problem is caused by a defect in your set-top box. If your unit does something unexpected while you are using it, please unplug it, wait a few seconds then plug it in again.

Important – *Never open your set yourself.*

Problem	Possible cause	Suggested solution
Your set-top box doesn't seem to be working, and there are no lights on the front panel.	Your set-top box is not receiving power.	Make sure that the mains plug is properly plugged in and that the mains supply is switched on. Check that the mains wall socket has power (try plugging in a lamp).
Your set-top box doesn't seem to be working, and the front-panel standby light is red.	Your set-top box is switched off.	Press ⏻ on the front panel or on your remote control.
Your set-top box doesn't seem to be working, and the front-panel display is green.	Your set-top box is not correctly connected to your other equipment, or your other equipment is not correctly set up. Your TV is not switched to show digital cable channels.	Check that all the connections are properly made (see page 6). Check that your TV is plugged into the mains and that it is switched on. If your set-top box is connected to your TV via a HDMI lead, try selecting the appropriate AV channel on your TV.
You can see on-screen interference.	Your TV is not correctly tuned.	Check that your TV is correctly tuned to your set-top box (see page 6). For further information, refer to your TV user manual.
Your remote control isn't working.	The batteries are flat or inserted the wrong way round. Something is between the remote control and your set-top box.	Check the batteries and replace them if necessary. Make sure you point your remote control directly at your set-top box and that nothing is between it and your set-top box. The IR receive light on your set-top box's front panel should flash each time you press a remote control button. If not try selecting your TV "AV input".
The menus and banners are in a language you don't understand.	The menu language has been changed to a language you don't understand.	You can change the menu language as follows: 1. Press **MENU**. 2. Press four time the ▼ arrow key (starting from the top item). 3. Press **OK** twice. 4. Press ◀/▶until your language displays. 5. Press the **green** key to save the new language.

If this fails to solve the problem or the following measures do not bring satisfactory results, please consult your retailer.

Glossary

DVI	A **Digital Video Interface** provides high-bandwidth digital connection between a video source and a TV. Audio is carried separately.
EPG	An **Electronic Program Guide** gives information on current and next TV programmes. The EPG is used to view TV programmes in the next days (up to 7 days according to the channel), to program a record by selection an event from the guide or to search easily for TV programmes. EPG are mainly provided on digital set-top boxes and on Digital Video Recorder (DVR).
HDMI	A **High Definition Multimedia interface** is like a high definition scart cable, a high-bandwidth digital connection for both video and audio. HDMI ensures the best video signal is sent from the source (HD signal) to the display (LDC, Plasma, DLP). It does this by sending uncompressed video and multi-channel audio to the TV through one single cable.
HDCP	**High bandwidth Digital Content Protection** (HDCP) is a copyright protection system that is incorporated into HD displays and receivers. It prevents unauthorised duplication and distribution of copyrighted content.
HD	**HD** (High Definition) provides a higher quality display with a vertical resolution display from 720p to 1080p.
LCD	**Liquid Crystal Displays** are one form of fl at-panel TVs. They are made up of two transparent panels with a liquid crystal solution sandwiched between the two. Electric currents are passed through the liquid – this causes the crystals to line up so that light cannot pass through them. Each of the crystals acts as a shutter, either allowing light to pass through or blocking out the light. The pattern of transparent and dark crystals forms the image.
Pixels	Pixels is the abbreviation for "picture element". Pixels are the smallest bits of data in a video image. The more pixels there are in an image, the greater the resolution.
Plasma	Plasma display is created by thousands of tiny tubes fi lled by ionized gas in a plasma state.
SPDIF	The name stands for **Sony/Philips Digital Interface Format**, the two companies being the primary designers of the S/PDIF format.
720p	720p means the vertical resolution of the TV picture is 720 lines. P refers to Progressive scanning.
1080i	1080i means the vertical resolution of the picture is 1080 lines. It refers to Interlaced scanning.

Guarantee card

Dear Customer,
Thank you for purchasing this Strong product and for your confidence in our company.
This product meets the applicable safety requirements and has undergone stringent testing during manufacture. However, in the event of defects occurring as a result of faulty workmanship or materials, please approach the dealer who sold you the product concerned and present this guarantee card, with the product type and serial number, as well as the original invoice or cash receipt indicating the date of purchase. The benefits of this guarantee may be refused if the invoice, cash receipt or guarantee card has been altered in any way, deleted or made illegible after the original purchase.
The guarantee terms and period for your product are governed by the statutory guarantee regulations as effective in the country where the purchase took place, and, as the case may be, by the agreement reached with your dealer.

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